

Receiving Report

Date: 13-8-21

Batch No: 126617

Supplier: ThyssenKrupp

Dart P/O: 20941

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☒ No ☐
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☐ No ☒ N/A ☐
 QC6 Inspection DAS ☐ N/A ☒
 Work Order 16 ☐ N/A ☒
9-89 13/08/21

Discrepancies

Part Number	Description
M304 B0. 625 x 3.000	
304 B0. 625 x 3.00	

Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

SP

Production/Admin: 13-8-21
 Date
 Received/Costing
 Initial SP

Location _____

Purchase Order Receipt Listing

Wednesday, August 21, 2013 8:35:31 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO20941 Receipt Dates from 8/21/2013 to 8/21/2013 All Line Item Types
All Item ID/GL/VOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO20941	3		M304R1.250 f	f	8/22/2013	8/21/2013	12.0000	\$8.11	0.0000	0	\$97.35
CAD	No		304 round bar 1.250 f	f	12.0000	DESJ02		\$97.35	0.0000	0	
			m126647								
	4		M304S18GA sf	sf	8/22/2013	8/21/2013	256.0000	\$3.12	0.0000	0	\$798.24
	No		304/316 .050 Sheet	sf	256.0000	DESJ02		\$798.24	0.0000	0	
			m126647								
	5		M6061T6B0.500X06. f	f	8/22/2013	8/21/2013	36.0000	\$6.80	0.0000	0	\$244.62
	No		000		36.0000	DESJ02		\$244.62	0.0000	0	
			6061-T6 Bar .500 x	f							
			6.00								
			m126647								
	6		M6061T6B0.750X00. f	f	8/22/2013	8/21/2013	12.0000	\$2.43	0.0000	0	\$29.21
	No		750		12.0000	DESJ02		\$29.21	0.0000	0	
			6061-T6 Bar .750 x	f							
			.750								
			m126647								
	7		M6061T6B0.250X06. f	f	8/22/2013	8/21/2013	48.0000	\$3.38	0.0000	0	\$162.42
	No		000		48.0000	DESJ02		\$162.42	0.0000	0	
			6061-T6 Bar .250 x	f							
			6.00								
			m126647								
	8		M6061T6B0.750X01. f	f	8/22/2013	8/21/2013	96.0000	\$2.46	0.0000	0	\$236.44
	No		500		96.0000	DESJ02		\$236.44	0.0000	0	
			6061-T6 Bar .750 X	f							
			1.50								
			m126647								
	9		M6061T6B0.750X02. f	f	8/22/2013	8/21/2013	12.0000	\$3.39	0.0000	0	\$40.69
	No		000		12.0000	DESJ02		\$40.69	0.0000	0	
			6061-T6 Bar .750 x	f							
			2.00								
			m126647								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name	VC-COP001	Thyssenkrupp Materials CA Ltd									
PO20941	10		M6061T6B1.250X01. f 250		8/22/2013	8/21/2013	24.0000	\$3.39	0.0000	0	\$81.38
CAD	No		6061-T6 Bar 1.25 x f 1.25 ml26647		24.0000	DESJ02		\$81.38	0.0000	0	
<div> <div>Total Received Quantity:</div> <div>496.0000</div> </div> <div> <div>Total Qty to Inspect (PO U/M):</div> <div>0.0000</div> </div> <div> <div>Total Reject Quantity:</div> <div>0.0000</div> </div> <div> <div>Total Receipt Value:</div> <div>\$1,690.35</div> </div> <div> <div>Total Balance Due Quantity:</div> <div>0.0000</div> </div>											

42

B I L L O F L A D I N G

No: PEC 836872

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 19Aug13 at 14:41 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-596560- 1 Your PO # 20941
STAINLESS STEEL ROUND BAR 304L
1.250" DIA X 144.0000"

Heat Number Tag No
H8J4 208380

Quantity PCS Wt LBS
12 FT 1 53

MTR

2) Our Order PEC-596560- 2 Your PO # 20941
STAINLESS STEEL SHEET 304-2B
.0480 Nom X 48.0000" X 96.0000"

Heat Number Tag No
300747 208562

Quantity PCS Wt LBS
256.00 SFT 8 513

MTR

3) Our Order PEC-596560- 3 Your PO # 20941
ALUMINUM FLAT BAR 6061-T6511
.50" X 6.00" X 144.0000"

Heat Number Tag No
C7331366 208381

Quantity PCS Wt LBS
36 FT 3 128

MTR

4) Our Order PEC-596560- 4 Your PO # 20941
ALUMINUM SQUARE BAR 6061-T6511
.750" X 144.0000"

Heat Number Tag No
21466608 208382

Quantity PCS Wt LBS
12 FT 1 8

MTR

5) Our Order PEC-596560- 5 Your PO # 20941
ALUMINUM FLAT BAR 6061-T6511
.250" x 6.00" X 144.0000"

Heat Number Tag No
21067 208383

Quantity PCS Wt LBS
48 FT 4 86

MTR

Page: 1Continued

10/10/13 2118

VBDC 2554

613-8-21

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTEES IMMEDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

RECU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVO/OST# 1017327981 T0001 TPS/GST TVH/HST # 140223934 RT0001

B I L L O F L A D I N G
Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 836872
Ship Date 19Aug13 at 14:41 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-596560- 6 Your PO # 20941
ALUMINUM FLAT BAR 6061-T6511
.750" X 1.50" X 144.0000"

Heat Number
21511

Tag No
208384

Quantity
96 FT

PCS
8

Wt LBS
127

MTR

7) Our Order PEC-596560- 7 Your PO # 20941
ALUMINUM FLAT BAR 6061-T6511
.750" x 2.00" X 144.0000"

Heat Number
21067

Tag No
208385

Quantity
12 FT

PCS
1

Wt LBS
21

MTR

8) Our Order PEC-596560- 8 Your PO # 20941
ALUMINUM SQUARE BAR 6061-T6511
1.250" X 144.0000"

Heat Number
21404

Tag No
208386

Quantity
24 FT

PCS
2

Wt LBS
44

MTR

TOTAL: Tags 8 PCS 28 LBS 980

Heat Number

*** Chemical Analysis ***

21067
21404
21466608
21511
300747
C7331366
H8J4

SP13-8-21

ADD ON TO

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTEES IMMEDIATEMENT
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

B I L L O F L A D I N G

No: PEC 836872

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 19Aug13 at 14:41 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL OF 1 SKID, 1 BDL GR.W. 991 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 3 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

THYSSENKRUPP MATERIALS NA

P.O./Rel 20941

Certificate of Mill Test Results

BL PEC-836872-001

19 Aug 13
Pg 1/1

DART AEROSPACE
STAINLESS STEEL ROUND BAR 304L
1.250" DIA X 144.0000"
PART NO.

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 856499 7

Mail To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 7/29/2013 Page: 1

Steel: 304/304L

Finish: SS

Your Order: PEC249529

NAS Order: PN 0029887 09

Corrosion: ASTM A262-10 Prac A/E OK

PRODUCT DESCRIPTION:

NACE ME0175 (MID RADIUS ONLY)
ROUND BAR, Annealed, Smooth Turned, Cold Finished
UNS 30400/30403, EN 10204 3.1, ASTM A484/11
ASTM A276/30, ASTM A479/11, ASTM A182/10 CHEM ONLY,
ASTM A276/10a, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QOS-763B, QOS-763F
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8
ASTM A193/10A-ASME SA193/10 CL 1 GR B8 (EXC PAR 7.2)

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7014A-1 EU DIRECTIVE
2011/65/EU, ROHS, EAF+AOD+CC, NO WELD REPAIR, MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

13/06/21

Product ID	Slid # Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BF5595 5	1.2500	1.172	144.00	15	1		

CHEMICAL ANALYSIS CM(Country of Met) ES(Span) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	MM %	MO %	N %	NI %	P %
H8J4	US	.0164	.2065	18.0675	.3755	1.5725	.3060	.0716	8.5160	.0295
	S %	SI %								
	.0171	.2765								

MECHANICAL PROPERTIES

Product ID	1 d o i c z	HB NO.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BF5595 5	RL	166.00	53.93	99.41	69.08	72.49

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy
of the test methods used, the material meets the specifications stated. These results relate only to the items
tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

50" X 6.00" X 144.0000"

PART NO.

PO/Rel 20941

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-836872-003

19 Aug 13
Pg 1/1

Certificate of Mill Test Results



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST ASTM B221-12

BILL TO	THYSSENKRUPP MATERIALS NA	Cert Code	1	DIE NUMBER	S	DATE OF SHIPMENT	7/17/2013	EXTRUDEX ORDER NO.	MANIFEST NO.
SHIP TO	THYSSENKRUPP MATERIALS NA	CUSTOMER PO	PEC-249935	ALLOY	6061	TEMPER	T6511	SALESMAN	FORBES DODWELL
SO DESCRIPTION	500" X 6" FB	CUSTOMER PART NUMBER	1-500-6000	PART DESCRIPTION					
				CERTIFICATION	MADE IN CANADA				
				MILL TEST ASTM B221-12					

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	JUL/12/13	49.7	44.2	14.50	90.7, 91.3, 91.0	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 C7331346 6061	0.62	0.16	0.20	0.01	0.38	0.06	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12

THYSSENKRUPP MATERIALS NA

PO/Rel 20941

Certificate of Mill Test Results

BL PEC-836872-005

19Aug13
Pg 1/1

DART AEROSPACE
ALUMINUM EXTRUDED BAR 6061-T6511
2.50" x 6.00" x 144,0000"
PART NO.

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: _____



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST ASTM B221-12

BILL TO THYSSENKRUPP MATERIALS NA	1	0.46	DATE OF SHIPMENT 6/21/2013	EXTRUDEX ORDER NO.	MANIFEST NO.
SHIP TO THYSSENKRUPP MATERIALS NA	CUSTOMER PO PEC-249405	1-250-6000	DATE OF SHIPMENT 6/21/2013	158672 - 1	289789
ISO DESCRIPTION 250"x6" FB	CUSTOMER PART NUMBER 1-250-6000	PAK DESCRIPTION 6061 T6511	SALESMAN FORBES DODWELL	MADE IN CANADA	
			CERTIFICATION MILL TEST ASTM B221-12		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Jun/19/13	41.2	37.7	14.30	86.8, 86.5, 86.9	

Chemical Composition

Al.11	Cast Number 21067	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
	8061	0.54	0.216	0.199	0.061	0.83	0.045	0.00	0.013	0.015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12

Certificate of Mill Test Results

19Aug13
Pg 1/1

Signed by:

<http://www.extrudex.com>

MANIFEST NO.

289789

MILL TEST ASTM B221-12

Conductivity

4, 88.0, 88.7

Si	0.54	Fe	0.216	Cu	0.199	Mn	0.061	Mg	0.83	Cr	0.045	Ni	0.00	Zn	0.013	Ti	0.015	Ga	0.00	V	0.00	B	0.00	Zr	0.00	Bi	0.00	Pb	0.00	Sn	0.00	Sr	0.00	Co	0.00	Al	0.00	Other	0.00
----	------	----	-------	----	-------	----	-------	----	------	----	-------	----	------	----	-------	----	-------	----	------	---	------	---	------	----	------	----	------	----	------	----	------	----	------	----	------	----	------	-------	------

[Handwritten signature]

1 - CUSTOMER COPY

MIL TEST ASTM B221-12

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
 .0480 Nom X 48.0000" X 96.0000"
 PART NO.

PO/Rel 20941

We certify that this is a true copy of the report
 furnished by the producer of the metal, or data
 resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-836872-002

19Aug13

Signed by: _____

Pg 1/1

OUTOKUMPU Outokumpu Stainless USA		INSPECTION CERTIFICATE CERTIFICADO DE INSPECCION ABNAHMEPRÜFZEUGNIS according to / de acuerdo con / nach EN 10204-3.1		Document number / N° de certificado / Bescheinigungs-Nr. 0000045408 / Page / Pagina / Seite: 1 / 1							
1 ThyssenKrupp Drive, P.O. Box 13000; Calvert, AL 36513-1300 GLOBAL STAINLESS STEEL INC. 1150 MEYERSIDE DRIVE MISSISSAUGA ON L5T 1J4 CANADA			Customer/Ship to / Cliente / Besteller/Empfänger GLOBAL STAINLESS STEEL INC., MISSISSAUGA Customer's order number / N° de Pedido Cliente / Kundenbestell-Nr. 100192 Manufacturer's work order no. / N° de Pedido Manufactura / Werksauftrags-Nr. 901153446 / 001 Delivery note no. / N° de Entrega / Lieferanzugs-Nr. 85243083 / 010 Product / Producto / Erzeugnis SHEET/HOJAS/BLECH Steel grade and quality / Acero / Stahlsorte und Gütegruppe TYPE 304L/304								
Terms of delivery / Condiciones de entrega / Lieferbedingungen ASTM A240/A240M, ASME SA-240 Sec.II Part A Ed.2010 ASTM A480/A480M, ASME SA-480 Sec.II Part A Ed.2010											
Customer's material no. / N° de material del cliente / Kundenmaterial-Nr.		Product dimensions (Thickness / Width / Length) / Dimensiones (Espesor / Ancho / Largo) / Maße des Erzeugnisses (Dicke / Breite / Länge)		Steel-making procedure / Proceso de manufact./ Herstellart	Finish / Acabado / Ausführung						
		1.22 mm x 1.210.20 mm x 2.438.40 mm 0.0480 inch x 48.0000 inch x 96.0000 inch		AOD	IIIc / 2B						
Packing-Nr. / N° de Empaque / Paket-Nr.	No. of pieces / Piezas / Stückzahl	Actual weight / Peso actual / Ist-Gewicht	Coil No. / Bobina No. / Band-Nr.	Heat No. / Coleda / Schmelz-Nr.	Sample Id. / N° de muestra / Proben-Id.						
6033527	70	4,165 lb / 1,889 kg	709244	300747	1000045340						
Sum / Suma / Summe	70	4,165 lb / 1,889 kg			1000045341						
Heat / Coleda / Schmelze	Country of heat / País de coleda / Erschmelzungsland	Chemical composition / Composicion Química / Chemische Zusammensetzung									
300747	ITA	% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu
		0.025	0.31	1.88	0.030	0.0010	18.04	0.22	8.07	0.056	0.28
Sample Position / Localización de la muestra / Probenlage		TRANSVERSE									
Inspection lot / Lote de inspección / Prüflot	YS0.2% PSI / MPa	TS PSI / MPa	E. A2" %	HRB							
1000045340	38,433 / 265	92,385 / 637	58.1	82							
1000045341	40,319 / 278	92,385 / 637	57.8	82							
Dimensions - surface / Dimensiones - Superficie / Maße - Oberfläche: OK											
Test of identity (spectrum analysis) / Control de identidad (análisis espectrográfico) / Verwechslungsprüfung (Spektralanalyse): OK											
HEAT - TREATMENT : 1920°F/AIR											
No weld repairs											
No intentional additions of Mercury compounds were made or used											
Free of radioactive contamination											
EU RoHS Directive 2011/65/EU Compliant											
Product manufactured in the USA											
Country of Heat as per ISO 3166-1											
Originator of the document / Originador del documento / Aussteller der Bescheinigung Outokumpu Stainless USA, LLC An ISO 9001: 2008 certified company				The information provided is a true copy of data on file / Los valores mostrados corresponden a los datos archivados / Die gegebenen Werte entsprechen den gespeicherten Daten _____ Andrew Faucett Phone: +1 251 829 3492				Date of issue and validation Fecha de emisión y validación Datum Ausstellung / Bestätigung 05/20/2013			
Certificate is generated automatically / Certificado es generado automáticamente / Das Zeugnis wurde elektronisch erstellt											
Name of expert / Nombre del experto / Name des Sachverständigen											

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511

750" X 144.0000"

PART NO.

PO/Rel 20941

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-836872-004

19 Aug 13
Pg 2/2

sapa

Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRENSHAW, PA
17929-0187

Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100631881	1	PEC-250128-001	SAPA804245	2 of 2
			Cert Creation Date	Cert Print Date
			23-JUL-13	23-JUL-13

Min	Max	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	0.05	---	0.05	0.15

5/2/06/21

Composition Results

Material	Si	Mn	Cu	Al	Mg	Cr	Zn	Ti	Fe	Other
5032098	0.65	0.27	0.20	0.06	0.23	0.05	0.03	0.02	---	---

Mechanical Property - Test Limits

Test	YTS - L	YTS - L	EL 40D Long
16511	21465608	5	42.7

Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.
Yield strength has been determined by the 0.2% offset method.
All mill finish alloys produced at Sapa Industrial Extrusions comply with Directive 2011/65/EC (RoHS 2) with the exception of 6262 alloy.
Tested in the USA or Other Qualified Countries as Defined by DEARS 225.872.1
Made in USA

THYSSENKRUPP MATERIALS NA

PO/Ref 20941

Certificate of Mill Test Results

BL PEC-836872-008

19Aug13
Pg 1/1

DART AEROSPACE
ALUMINUM SQUARE BAR 6061-T6511
1.250" X 1.44, 0000"
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4

<http://www.extrudex.com>

MILL TEST ASTM B221-12

BILL TO THYSSENKRUPP MATERIALS NA	1773	Port Code:	1	0.52	DIE NUMBER	S	4768	DATE OF SHIPMENT	8/2/2013	EXTRUDEX ORDER NO.	MANIFEST NO.
SHIP TO THYSSENKRUPP MATERIALS NA	1773	CUSTOMER PO	PEC-250355		ALL OR PART	6061	TEMPER	SALESMAN	FORBES DODWELL	159959 - 2	292311
30 DESCRIPTION 1.25" SQ		CUSTOMER PART NUMBER	3-1250		DIE DESCRIPTION					MADE IN CANADA	
										CERTIFICATION	MILL TEST ASTM B221-12

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Jul/30/13	44.0	41.1	12.50	90.3, 90.0, 90.5	

Chemical Composition

Cast/Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 21404 6061	0.58	0.235	0.207	0.077	0.84	0.048	0.00	0.007	0.012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder 0.00

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12

THYSSENKRUPP MATERIALS NA

PO/Rel 20941

Certificate of Mill Test Results

BL PEC-836872-006

19Aug13
Pg 1/1

DART AEROSPACE
ALUMINUM PLAT BAR 6061-T6511
.750" X 1.50" X 144.0000"
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST ASTM B221-12

REL TO THYSSENKRUPP MATERIALS, NA	Cert Code: 1	DATE OF SHIPMENT 8/12/2013	EXTRUDEX ORDER NO. 159998 - 10	MANIFEST NO. 292797
SHIP TO THYSSENKRUPP MATERIALS, NA	CUSTOMER PO PEC-250379	DATE OF SHIPMENT 8/12/2013		
NO DESCRIPTION .750" X 1.5" FB	CUSTOMER PART NUMBER 1-750-1500	DATE OF SHIPMENT 8/12/2013		
	ALLOY 6061	TEMPER T6511		
	SALESMAN FORBES DODWELL	CERTIFICATION MILL TEST ASTM B221-12		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Aug/08/13	45.0	41.4	16.00	86.1, 86.5, 86.7	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 21511 6061	0.58	0.209	0.196	0.058	0.82	0.043	0.00	0.0090	0.014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20941**

Purchase Order Date 8/15/2013

PO Print Date 8/16/2013

Page Number 1 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED \$ QTY

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
2	M304B0.625X3.000	304 BAR .625 X 3.00	8/30/2013 Yes 8/30/2013		10.00 f	\$18.70	\$187.00
MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE							
Line Total:							\$187.00
3	M304R1.250	304 round bar 1.250	8/22/2013 Yes 8/22/2013		12.00 f	\$8.33	\$100.00
MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE							
Line Total:							\$100.00

PO Instructions: NO: PEC ST-595990

Note:

8/16/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20941**

Purchase Order Date 8/15/2013

PO Print Date 8/16/2013

Page Number 2 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

4	M304S18GA	304/316 .050 Sheet	8/22/2013	256.00	\$3.20	\$819.97
			Yes	sf		
			8/22/2013			

MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER
MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR
ASTM A240 OR ASME SA240

Line Total: \$819.97

5	M6061T6B0.500X06.000	6061-T6 Bar .500 x 6.00	8/22/2013	36.00	\$6.98	\$251.28
			Yes	f		
			8/22/2013			

MATERIAL: 6061-T6/T651/T6510/T6511/62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

Line Total: \$251.28

6	M6061T6B0.750X00.750	6061-T6 Bar .750 x .750	8/22/2013	12.00	\$2.50	\$30.00
			Yes	f		
			8/22/2013			

MATERIAL SPEC'S SAME AS ABOVE

Line Total: \$30.00

2013-8-21

PO Instructions: NO: PEC ST-595990

Note:

8/16/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20941**

Purchase Order Date 8/15/2013

PO Print Date 8/16/2013

Page Number 3 of 4

Order From :
VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

7	M6061T6B0.250X06.000	6061-T6 Bar .250 x 6.00	8/22/2013 Yes 8/22/2013	✓ 48.00 f	\$3.48	\$166.84
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MATERIAL SPEC'S SAME AS ABOVE

Line Total: \$166.84

8	M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50	8/22/2013 Yes 8/22/2013	✓ 96.00 f	\$2.53	\$242.88
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MATERIAL SPEC'S SAME AS ABOVE

Line Total: \$242.88

9	M6061T6B0.750X02.000	6061-T6 Bar .750 x 2.00	8/22/2013 Yes 8/22/2013	✓ 12.00 f	\$3.48	\$41.80
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MATERIAL SPEC'S SAME AS ABOVE

Line Total: \$41.80

8/13-8-21

PO Instructions: NO: PEC ST-595990

Note:

8/16/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20941**

Purchase Order Date 8/15/2013

PO Print Date 8/16/2013

Page Number 4 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

10	M6061T6B1.250X01.250	6061-T6 Bar 1.25 x 1.25	8/22/2013	24.00	3.48	\$83.60
			Yes	f		
			8/22/2013			

MATERIAL SPEC'S SAME AS ABOVE

813-8-21

Line Total: \$83.60

PO Total: \$1,923.36

PO Instructions: NO: PEC ST-595990

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO
PST# 6122-5207

Change Nbr: 2 Change Date: 8/16/2013